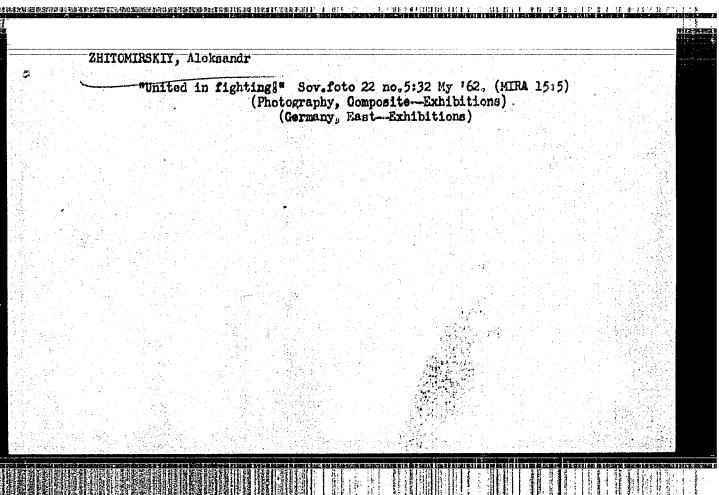


SKIY, Aleksandr; KI			
Moskva. Moscow. 1963. 86 p.	Moskva, Gos.izd-vo	izobraz.iskus., (MIRA 17:9)	
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	1. Glavnyy khudozhnik zhurnala "Sovetskiy Soyuz". (Photography, trick)	
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RUDRA, O.K.; FIALKOV, Yu.Ya.; ZHITOMIRSKIY, A.N.

Radioisotopic method for determining the transfer numbers in secondary systems and individual electrolytes. Zhur. neorg. khim. 8 no.781737-1741 Jl '63. (MIRA 16:7)

1. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR. (Radioisotopes)
(Ions.--Migration and velocity)

	Proceedings of the state of the	13.0.22
KUDRA	, O.K.; FIALKOV, Yu.Ya.; ZHITOMIRSKIY, A.N.	
	Transfer numbers in the system sulfuric acid - acetic acid. Zhur. neorg. khim. 8 no.7:1742-1748 J1 '63. (MIRA 16:7)	
	l. Kiyevskiy politekhnicheskiy institut i Institut khimii AN Tadzhikskoy SSR. (Sulfuric acid) (Acetic acid) (Ions-Migration and velocity)	
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		His Military

KUDRA, O.K.; ZHITOMIRSKIY, A.N.; FIALKOV, Yu.Ya.

Electric transfer of ions in absolute sulfuric acid. Dokl. AN
SSSR 151 no.2:377-379 Jl '63. (MIRA 16:7)

1. Kiyevskiy politekhnicheskiy institut. Predstavleno akademikom
V.I.Spitsynym.

(Ions—Migration and velocity) (Sulfuric acid)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064820016-2"

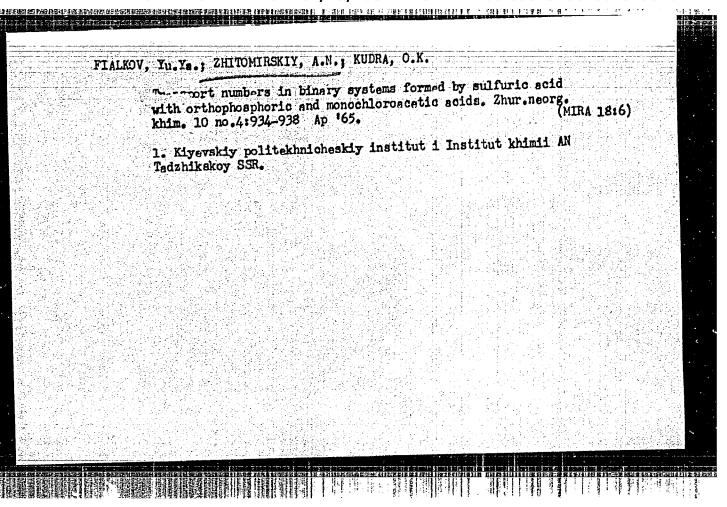
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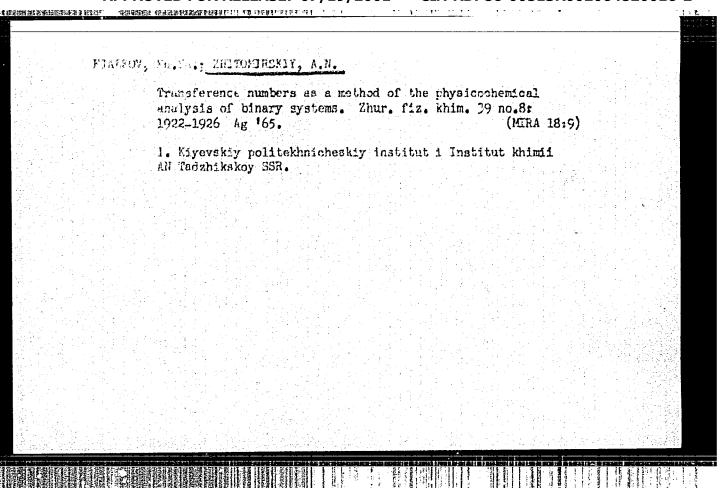
513 513		
SOLO	ZHENKIN, P.M.; GLEMBOTSKIY, V.A.; OGNEVA, L.L.; ZHITOMIRSKIY, A.N.	
	Complex utilization of waste at the Maikhura concentrating mill. Izv. Otd. geolkhim. i tekh. nauk AN Tadzh.SSR 1:33-44 60.	
	1. Institut khimii AN Tadzhikskoy SSR. (Ore dressing) (Salvage (Waste, etc.))	
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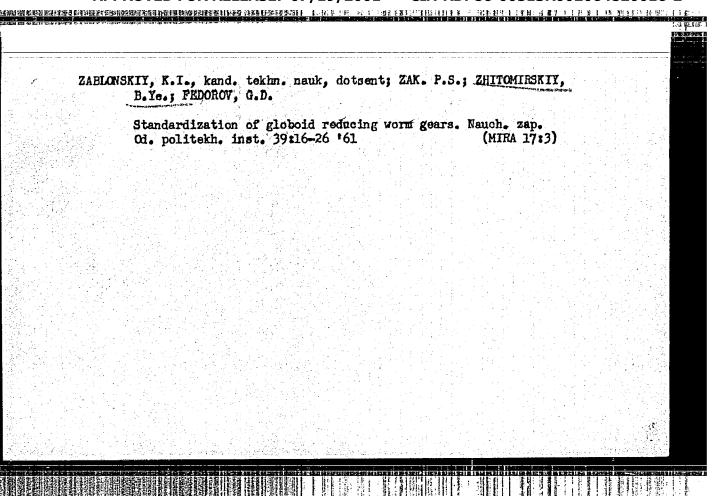
Transference numbers in the systems formed by water with sulfuric and orthophosphoric acids. Zhur. neorg. khim. 9 no.10:2454-2457 (MIRA 17:12)

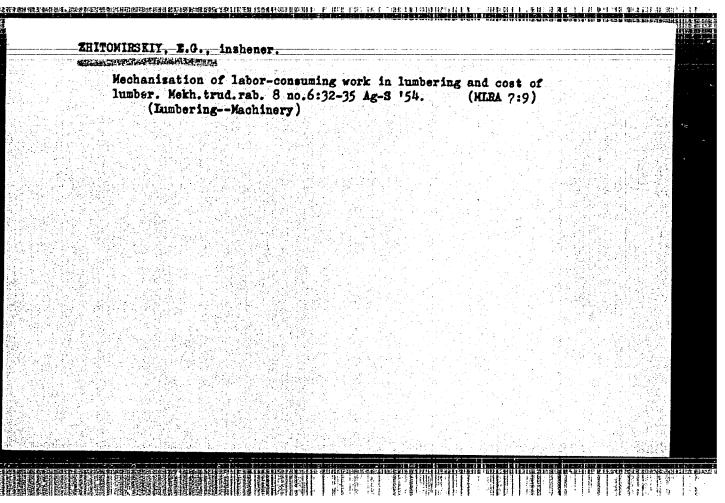
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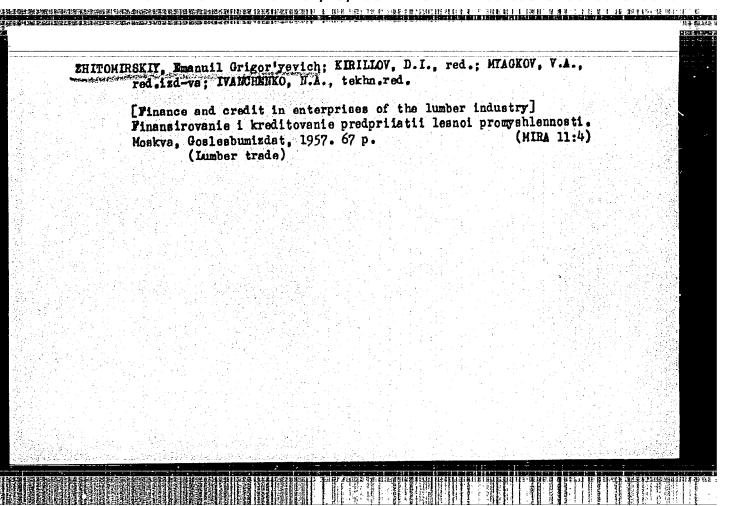


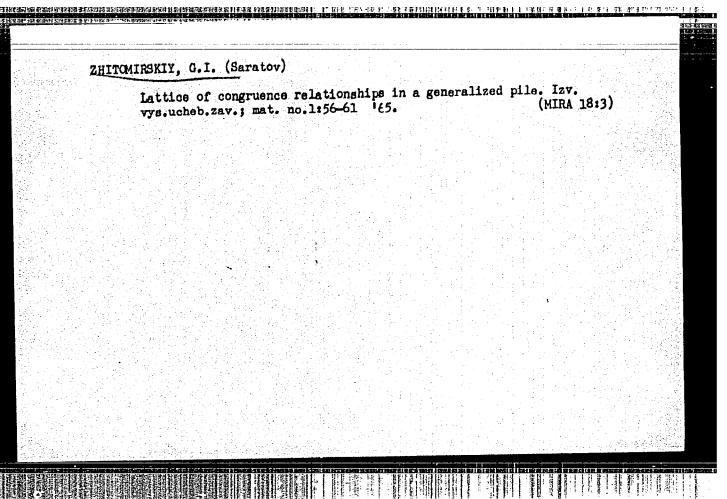


The second secon	Step by step. Prom.koop. 13 no.2:11 F '59.		
	1. Starshiy inzhener proizvodstv ennogo otdela Kirgizprog. Frunze.	(MIRA 12:4) omsoveta,	
	(Frunze-Glass manufacture)		
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	로 보고 있는 사람들도 보통 보고 있는 보고 있는 것이다. 그는 다른 사람들은 보고 있는 것이다.		
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	나 이렇게 불렀을 열었다. 그 그릇이 되는 사람은 사람이 먹었다.		음료보통
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	회문을 살려왔다는 이번 사람은 모든 이번 사용을 보내셨다.		









Gyroscopic orie	entation of Donets Bas	sin mines. Ugol' 3	33 no.2:34-35 (MIRA 11:2)	
	skoye otdeleniye Soyu (Mine surveying)	zmarkshtresta. (Gyroscope)		
Parthur	Δ.	U M. no - 5 3 - 4 8 7 1 1		
	그는 불편한 동안 이 나라요? (1987년 1일 전 1987년 1871년 1			

ZHITOMIRSKIY, I. B. (Engineer)

"The problem concerning the influence of external torques on the stability of readings of the gyrocompass with centering control of the sensing element on a pivot."

paper presented at the Second Scientific and Technical Intervuz Conference on Problems of Contemporary Cyroscopy, Ye. F. Otvagin, Secretary of the Organization Committee; Leningrad, Izvestiya Uchebnykh Zavedenity, Priborostroyeniye, No. 5, Sep/Oct 1958, pp 161-163

The Second Intervuz Conference on Problems of Contemporary Gyroscopy Technique convoked by decision of the Ministry of Education USSR, took place in the Leningrad Institute of Precision Mechanics and Optics from 24 to 27 November 1958.

8/146/61/004/003/006/013 D217/D301

Zhitomirskiy, I.B.

TITLE:

The influence of external torque forces on the

stability of a gyrocompass with a centering sensitive

element (SE) on the needle

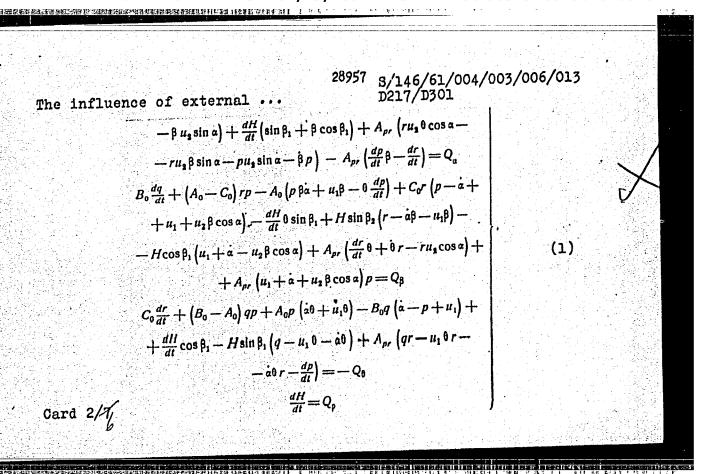
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priboro-

stroyeniye, v. 4, no. 3, 1961, 59 - 67

TEXT: Naval gyrocompasses are bulky, not fireproof and slow whereas the present gyrocompas (SE) has no such defects. It, (SE) has pendulum momentum, with SE centering on the needle and is weightless in liquid. The SE is cylindrical. The differential equation 18

$$A_0 \frac{dp}{dt} + (C_0 - B_0) qr + C_0 \left(\frac{dr}{dt} \cdot \beta - r \dot{\alpha} \theta - r u_1 \theta\right) + B_0 \left(\frac{dq}{dt} \cdot \theta + q \dot{\alpha} \beta + q u_1 \beta\right) + H \cos \beta_1 \left(\beta + u_2 \sin \alpha\right) + H \sin \beta_1 \left(\theta u_2 \cos \alpha - q \right)$$
(1)

Card 1/7/



28957 8/146/61/004/003/006/013 D217/D301

The influence of external ...

where α , β , θ - angles as generalized coordinates (Fig. 2), ρ - rotor angle of rotation, p, q, v - instantaneous angular velocities of the floater in relation to the moving coordinates, H - main kinetic momentum of the system, u_1 and u_2 - vertical and horizontal components of earth rotation speed, Q_{α} , Q_{β} , Q_{θ} , Q_{ρ} - generalized forces along their appropriate axis, β - constructional angle between the normal of the SE axis of symmetry and rotor rotation axis

经收益的过去式和比较的变形的数据,但我们还会的分别,我们就是这个人的人的人,我们就是一个人的人的人,我们就是一个人的人们的人,我们就是一个人的人们的人,我们们一个人的人,

$$H = C_{1} (\dot{\rho} + p \sin \beta_{1} + r \cos \beta_{1});$$

$$A_{0} = A + A_{1} \cos^{2} \beta_{1};$$

$$B_{0} = B + B_{1} + m S_{0_{1}}^{2};$$

$$C_{0} = C + m S_{0_{1}}^{2} + A_{1} \sin^{2} \beta_{1};$$

$$A_{pr} = A_{1} \sin \beta_{1} \cos \beta_{1},$$

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28957 5/146/61/004/003/006/013 D217/D301

The influence of external ...

where m - total mass of SE; S_{01} - distance between the centering point and center of gravity of SE; C_1 - moment of inertia of the gyromotor rotor in relation to the axis of rotation; Λ , BC - moments of inertia of the floater, cover and tilting in relation to ments of inertia of the floater, cover and tilting in relation to exes X, Y and Z. Assuming, as it is in practice, that β_1 = 0 equations (1) are reduced to

$$A_0 \dot{\alpha} + H \dot{\beta} + H u_2 \sin \alpha = Q_2$$

$$B_0 \dot{\beta} - H \dot{\alpha} + H u_2 \dot{\beta} - H u_1 = Q_{\beta}$$

$$(2)$$

By doing so an error in α of less than 70° and β - less than 1-2° are introduced. As reversing points are observed, Eq. (2) gives precision of not less than 5-10" - for α and 0.1 - 0.2" for β . As β 1 is reduced to zero dH/dt is small and, therefore, the author neglects the variation of kinetic momentum and discusses four external torques: 1) Friction torque on the needle; 2) Liquid fric-

Card 4/7/6

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The influence of external ...

tion torque; 3) Torque due to variation of positive or negative buoyancy of SE; 4) Torque due to electrical forces by interaction with conduction currents in the liquid. Consideration of torques 1) and 2) together with a pendulum torque leads to Eq.

$$\alpha = (a_n - a_r) e^{-\gamma t} \left(\cos \delta t + \frac{1}{\epsilon_{\text{ast}}} \sin \delta t\right) + a_r, \tag{7}$$

where a_n - amplitude of the n-th oscillation, a_T - friction amplitude. Analysis shows that friction may introduce a large error. To avoid this it is necessary to give a smooth surface to the SE, and use a liquid with low viscosity and low coefficient of thermal expansion. The optimum ratio of radii for needle and support is 1:3-1:4. A short analysis is made for the eccentricity between the geometrical center and the suspension point of the SE which involves precession of the gyro. A similar result is when the axis of symmetry of the SE is not vertical. It is not very important for the existing gyro $\triangle \alpha \approx 9^n$. Torque 4) is due to the capacitive

Card 5/7/

28957 S/146/61/004/003/006/013 D217/D301

The influence of external ...

character of the terminal in the liquid. The approximate theory shows that in practical cases this torque was 4 x 10-4g cm and, as a result Δ $\alpha_2 \approx$ 90" - it is allowed to reach the value S-10".

The design of a gyro needs constant checking of all elements which may introduce undesirable torques. There are 3 figures.

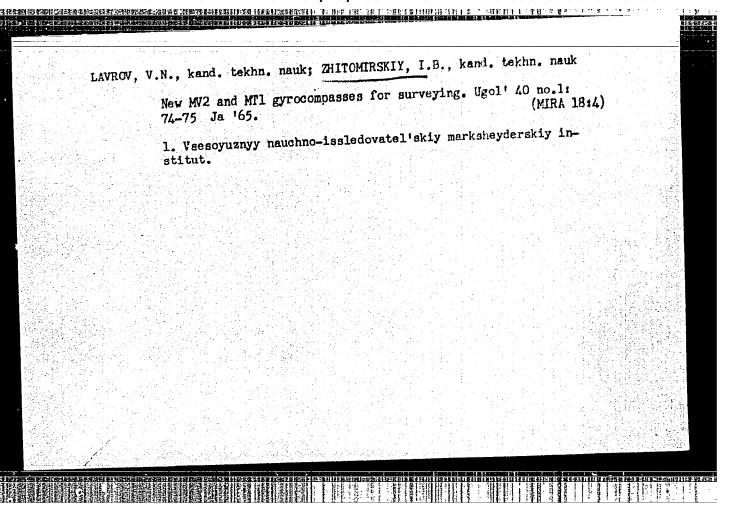
ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (All Union Scientific Research Mining Institute)

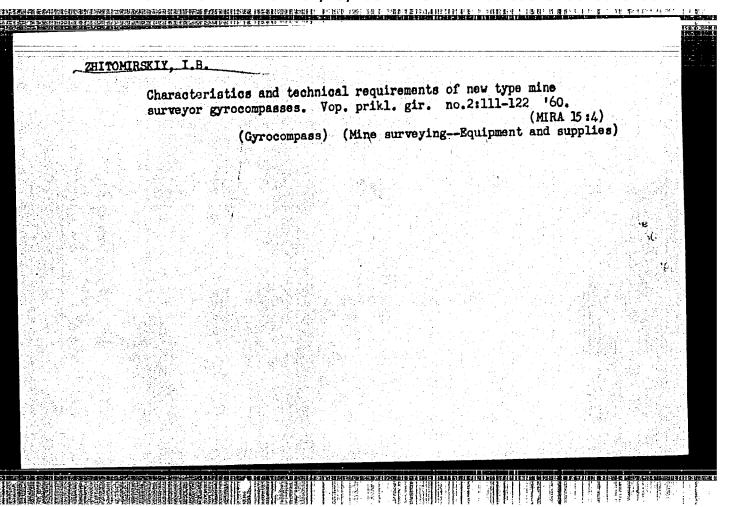
SUBMITTED: November 14, 1960

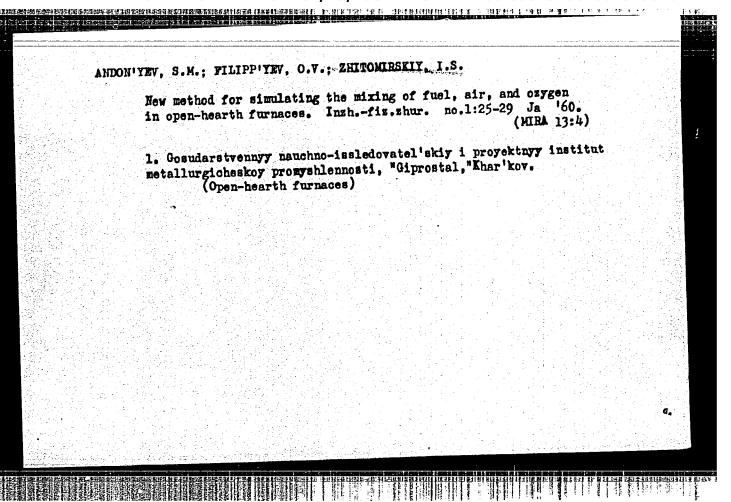
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		HIZAS
1	L 29006-66 EWT(d)/EWT(1) GW/GD ACC NR: AP6007910 (A) SOURCE CODE: UR/0000/66/000/002/0017/0021 AUTHOR: Lavrov, V. N.; Zhitomirskiy, I. B.; Lukovatyy, Yu. S.	
	AUTHOR: Lavrov, V. N.; Zhitomirskiy, I. B.; Lukovatyy, Yu. S. ORG: none	
Activities of part	TITLE: Gyroscopic method of the determining of directional angles	
	SOURCE: Geodeziya i kartografiya, no. 2, 1966, 17-21	
	TOPIC TAGS: gyrocompass, angle measurement instrument, theodolite, surveying instrument ABSTRACT: The MTl surveying gyrocompass with torsional suspension is described in de- tail. The compass is designed for underground and surface surveying and for problems requiring measurement of angles with a precision of $10-20$ ". The gyrocompass weighs requiring measurement of angles with a precision of $10-20$ ". The gyrocompass weighs to the gyroscope unit, angle measurement unit, tripod, the sund consists of five parts: the gyroscope unit, angle measurement unit, tripod, to the gyrocompass with a suspended sensitive element and a direct current conductor to the gyrocompass with a suspended sensitive element and a direct current conductor to the element. The controlling unit has a 3-phase transformer of 25 v, and amplifier, and pickup transformers. The power supply unit contains 22 electric cells. Directional angle a is computed by using the following formulas: $a = A - \gamma = \Gamma + \delta - \gamma$	
	8=A ₀ Γ _c =α ₀ Γ ₀ +γ ₀ ,	
	UDC: 528.526.6	
		and August

where A and A ₀ are t angles of the meridi on the initial and o the gyrocompass corr the Leningrad labora	ans C' and C" passociented sides, F a rections. Observat ctories gave #21" a	sing through thand Fo are gyre tions carried and *10" as the	he points or occompass azimout with 2 gy	cne compass uths and 6 a rocompasses	nd of are in one of
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CIA-RDP86-00513R002064820016-2" **APPROVED FOR RELEASE: 07/19/2001**

ZHITOMIRSKIY, I. S., VASIL'YEV, A. G. and KLEMPNER, K. S.

"Statistical Reliability of Relay Devices in Steady State and Transient Processes"

paper presented at the All-Union Seminar on the Application of Radioactive Isotopes in Measurements and Instrument Building, Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

CIA-RDP86-00513R002064820016-2 "APPROVED FOR RELEASE: 07/19/2001

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OR: Zhitomirskiy, I					
		yev, A. G.; K			
E: Statistical rel				steady-state a	ınd
D SOURCE: Sb. Radio	pizotopn. mét	ody* avtomat.	kontrolya.	T. 1. Frunze,	
C TAGS: relay reli		tactless swit	ch, registe	r, statistical	
SLATION: Reliabili sisters and contactly random nature of re	ity of operat Less switches adioactive de	ion is consided to the consider of the consideration of the conside	lered of rel tuating-erro estration. F	ay-type devices or conditions ca hibliography: 4	aused by titles.
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	Signt conditions ED SOURCE: Sb. Radio KirgSSR, 1963, 31-41 EC TAGS: relay reli Lability WSLATION: Reliabili	Sient conditions ED SOURCE: Sb. Radioizotopn. met KirgSSR, 1963, 31-41 EC TAGS: relay reliability, con Lability WISLATION: Reliability of operat gisters and contactless switches random nature of radioactive de E ACQ: 17Apr64	ED SOURCE: Sb. Radioizotopn. metody* avtomat. KirgSSR, 1963, 31-41 IC TAGS: relay reliability, contactless swittability WISLATION: Reliability of operation is considerated and contactless switches) under fluctuation nature of radioactive decay. One illustrated acceptable and contactless switches. E ACQ: 17Apr64 SUB CODE: IE	ED SOURCE: Sb. Radioizotopn. metody* avtomat. kontrolya. KirgSSR, 1963, 31-41 IC TAGS: relay reliability, contactless switch, registerability WISLATION: Reliability of operation is considered of religisters and contactless switches) under fluctuating-error random nature of radioactive decay. One illustration. E E ACQ: 17Apr64 SUB CODE: IE	ED SOURCE: Sb. Radioizotopn. metody* avtomat. kontrolya. T. 1. Frunze, KirgSSR, 1963, 31-41 [C TAGS: relay reliability, contactless switch, register, statistical lability [SSLATION: Reliability of operation is considered of relay-type devices gisters and contactless switches) under fluctuating-error conditions carrandom nature of radioactive decay. One illustration. Bibliography: 4 E ACQ: 17Apr64 SUB CODE: IE ENCL:

	<u>L 14576-66</u> EWT(1)/EWA(h) TO SOURCE CODE: UR/0000/63/000/00031/0041	
	AUTHOR: Zhitomirskiy, I. S.; Vasil'yev, A. G.; Klempner, K. S.	ľ
	ORG: none TITIE: Statistical reliability of relay systems in stationary states and transient processes	
・ 10年 年 1 日本 1	SOURCE: Vsesoyuznyy seminar po primeneniyu radioaktivnykh izotopov v izmeritel'noy tekhnike i priborostroyenii. Frumze, 1961. Radioizotopnyye metody avtomaticheskogo kontrolya (Radioisotope methods of automatic control); trudy rasshirennogo soveshchaniya, v. 1. Frumze, Izd-vo AN KirgSSR, 1963, 31-41	
	TOPIC TAGS: reliability theory, electric relay, radioactive source, RADIOACTICS	190 200 200 200 200 200 200 200 200 200 2
	ABSTRACT: The paper deals with the reliability of a relay with respect to fluctuational errors caused by the random nature of radioactive decay. It is shown that the optimal measure of reliability for the operation of the instrument in a transient process is the probability of one and only one commutation of the relay during the interval of increase and decrease of the mathematical expectation of the control	
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signal. The optimal measure of reliability for contactless breakers is the probability of at least one commutation of the relay during the interval of increase and decrease of the mathematical expectation of the control signal. In addition to the earlier criteria of reliability of stationary regimes of relays, a new reliability criterion is introduced: the probability of the absence of relay commutations during a given time of operation in the stationary state. A numerical method of calculating reliability criteria is given. The use of this method presupposes the use of	
high speed computers. Orig. art. has: 1 figure, 31 formulas. SUB CODE: 09,14/ SUBM DATE: 21Mar63/ ORIG REF: 002/ OTH REF: 000	
ω	

VASIL'YEV, A.G.; ZHITOMIRSKIY, I.S.; KLEMPNER, K.S.

Classificiation of relay devices with nuclear radiation sources.

Izm. tekh. no.7:53-56 J1 '63. (MIRA 16:8)

(Electric relays) (Nuclear instruments)

L 13319-63 EWT(d)/FCC(w)/BDS AFFTC IJP(C)

ACCESSION NR: AP3001457

8/0052/63/008/002/0156/0166

AUTHOR: Zhitomirskiy, I S. (Khar'kov)

TITLE: Distribution functions of first passage time

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 8, no. 2, 1963, 156-166 !

TOPIC TAGS: Markov process, shot effect, first passage time

ABSTRACT: For a Markov process of infinite extent under certain conditions a partial differential equation is derived for the function O(t,M), whose value is the probability of staying in the set GAMMA from time 0 to time t and being in the set M at time t. G at t and GAMMA is thus the probability of staying in GAMMA from time 0 to time t; i.e. I minus the probability that first passage time from GAMMA exceeds t. Application is made to the case of shot notice, where a finite difference scheme is developed for numerical solution of probability of first passage time from the interval 0 to 1. In conclusion the attnor vishes to express his gratitude to A. G. Vasiliyev and K. S. Klemmer for the posing of a practical problem whose generalized solution is this paper. Originary has a formulas.

Card 1/81

ZHITOMIRSKIY, I.S.; KUZ'MINSKAYA, S.B. Refect of a cooled wall on the temperature of the charge and a gas moving in the counterflow. Insh. -fis. shar. 5 no.10:89-92 0 '62. (MRR 15:12) 1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy po proizvodstvu stali, g. Khar'kov. (Blast furnaces)

16.9500,21.7100

77830 SOV/103-21-2-10/14

AUTHORS:

Vasilev, A. G., Zhitomirskiv, I. S., Klempner, K. S.

(Kharkov)

TITLE:

Reliability Criteria of Automatic Relay Arrangements

With Radioactive Emitters

PERIODICAL:

Avtomatika i telemekhanika, 1960, Vol 21, Nr 2,

pp 245-253 (USSR)

ABSTRACT:

The study determines the probabilities that the relay will maintain a given state, and an average number of "false" operations at a unit time as function of the system parameters. On the basis of previously published

papers, the authors refer to the characteristic

function of distribution of the random magnitude, and the cumulatives of distribution. Applying these equations to devices in which the RC cell serves as an integrator, in order to determine the density of probability and the function of distribution, leads to very difficult calculations. Two expansions in a series for the density of probability p(x) and for the function of

Card 1/8

Reliability Criteria of Automatic Relay Arrangements With Radioactive Emitters

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distribution F(x), both to be determined, are considered. The first and second expansion in a series, respectively, may be used for greater and smaller magnitudes of ν where

v = nRC

(5)

Here, n is the speed of calculation and RC is a resistance capacitance cell. Assuming that speed of calculation is constant and that the time when the system is in a steady-state condition is sufficiently long, the investigation of reliability of the system is reduced to an investigation of reliability of the stationary state. Thus, the following equations for density of probability p(x) and for function of distribution F(x) are derived:

Card 2 /8

Reliability Criteria of Automatic Relay Arrangements With Radioactive Emitters

$$p(z) = \frac{0.5}{V_{V}} \Phi_{1} \left(\frac{s}{V_{Z}^{2}} \right) - \frac{0.0278}{v^{2}} \Phi_{4} \left(\frac{s}{V_{Z}^{2}} \right) + \frac{0.00520}{v^{4}} \Phi_{8} \left(\frac{s}{V_{Z}^{2}} \right) + \frac{0.00617}{v^{4}} \Phi_{7} \left(\frac{s}{V_{Z}^{2}} \right) - \frac{0.000834}{v^{4}} \Phi_{6} \left(\frac{s}{V_{Z}^{2}} \right) - \frac{9.87 \cdot 10^{-4}}{v^{4}} \Phi_{8} \left(\frac{s}{V_{Z}^{2}} \right) - \frac{3.58 \cdot 10^{-8}}{v^{4}} \Phi_{10} \left(\frac{s}{V_{Z}^{2}} \right) + \dots, \quad (9)$$

$$P(x) = 0.5 + \Phi(z) - \frac{0.0278}{V_{V}} \Phi_{3} \left(\frac{z}{V_{Z}^{2}} \right) + \frac{0.00522}{v} \Phi_{4} \left(\frac{s}{V_{Z}^{2}} \right) + \frac{0.000773}{v} \Phi_{6} \left(\frac{s}{V_{Z}^{2}} \right) - \frac{0.000832}{v^{4/4}} \Phi_{8} \left(\frac{z}{V_{Z}^{2}} \right) - \frac{4.20 \cdot 10^{-6}}{v^{4/4}} \Phi_{9} \left(\frac{s}{V_{Z}^{2}} \right) + \dots, \quad (10)$$

$$W_{HERE}$$

$$\Phi(z) = \frac{1}{V_{ZR}^{2}} \int_{0}^{z} e^{-\frac{V_{1}}{z}} dV \qquad (11)$$

Here Eq. 11 is the fixed Laplace function, Φ_{n} $(rac{z}{\sqrt{2}})$

are the derivatives of the integral of probability, and z is the quotient of standard deviation. The second expansion in a series for smaller ν and greater z is similar to the method worked out by Maslov and

Card 3/8

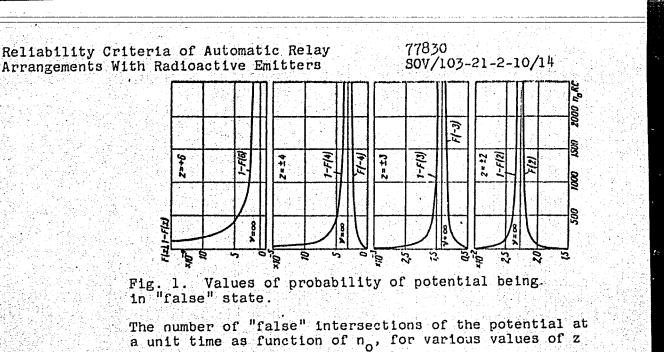
Reliability Criteria of Automatic Relay Arrangements With Radioactive Emitters 77830 SOV/103-21-2-10/14

Povzner in the study, "On Infinitesimal Operators of One Class of Markov Processes." Theory of Probability and Its Application. (Ob infinitezimalnykh operatorakh odnogo klassa markovskikh protsessov. Teoriya veroyatnostey i eye primeneniza), Vol 3, Nr 1 (1958). When the function of distribution is found by one of the above methods, the average time of the stay of the relay in a given state and the average number of "false" operations at a unit time may be determined easily. For a noninertial relay these problems are reduced to determining the number of intersections of the actual values of potential with the potential V at which a change in the relay state takes place. The downward (S \(\subseteq \) and upward inter-

sections (S \uparrow), respectively, correspond to states $1 |\overline{v}| > |v_n|$ and $2 |\overline{v}| < |v_n|$. The following equations for S \downarrow and S \uparrow are derived:

Card 4/8

Reliability Criteria of Automatic Relay 77830 SOV/103-21-2-10/14 Arrangements With Radioactive Emitters 126) $S^{1}=n_{0}\rho\left(x\right) .$ where no is the threshold operation of the relay and $S^{\dagger} = np(x).$ The average duration of overshooting for state 1 is given in the form: (31) $T^{+} = \frac{F(x)}{n_0 p(x)},$ and for state 2 in the form: $T^{\frac{1}{2}} = \frac{1 - F(x)}{n\rho(x)}.$ For condition $\frac{1}{S!} > T! \quad \text{or } \frac{1}{S!} > T!$ the distribution of the number of "false" operations is similar to the Poisson's distribution. Making use of the above equations, the curves in Fig. 1 are obtained, showing the probability that the potential is in "false" state, as function of noRC. Card 5/8



Card 6/8

of the relay).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064820016-2"

and RC is shown in Fig. 2 (where no is threshold operation

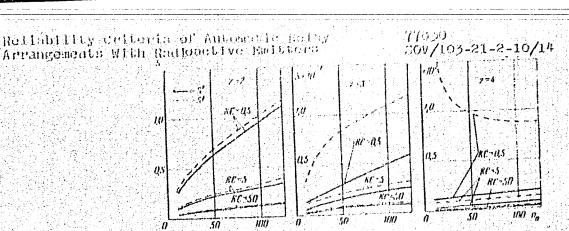


Fig. 2. Values of the average number of "false" intersections of potential in a unit time.

The average value of time when potential is in "false" state conditions for various 2, no, and RC is shown in Fig. 3. On the basis of results obtained, the relative time when the contacts of relay are in the "false" state and the number of "false" contact switchings may be determined for an actual relay of known characteristics. The assistance of L. K. Tatochenko

Card 7/8

第25章 1986年,1985年,1985年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年

Reliability Criteria of Automatic Relay Arrangements With Radioactive Emitters

77530 SOV/103-21-2-10/14

is acknowledged. There are 3 figures and 6 Soviet $_{7}$ references.

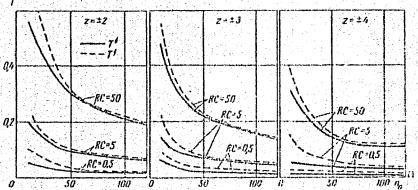


Fig. 3. Average values of "false" intersection.

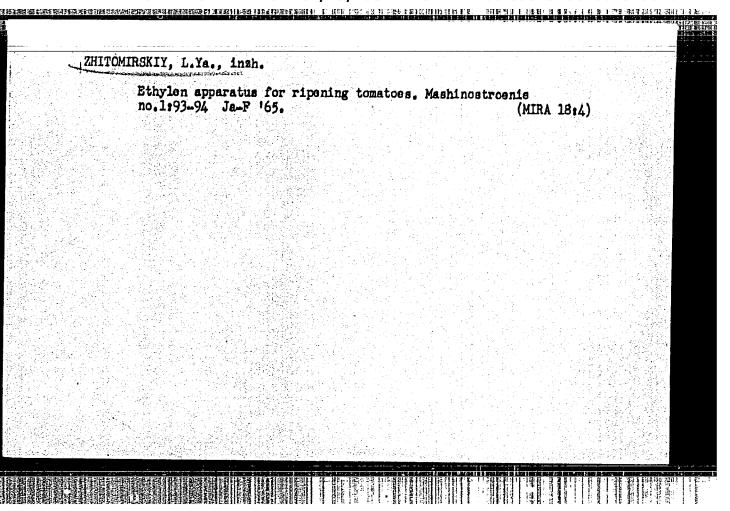
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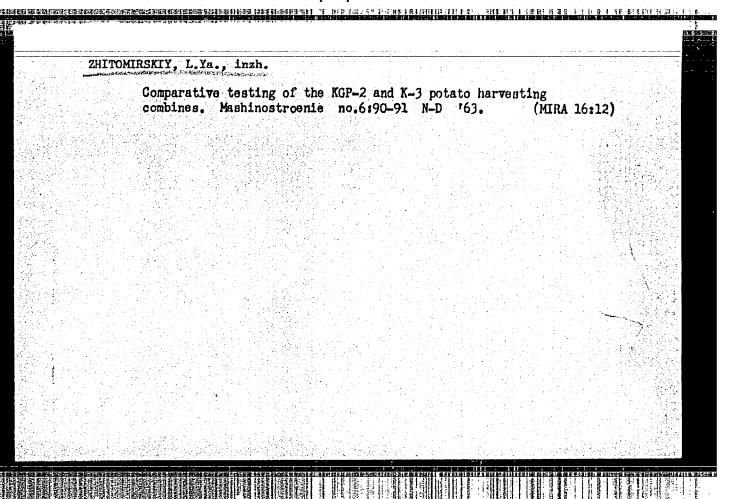
June 17, 1959

Card 8/8

FAT(1)/FAT(m)/T/FAP(t)/FAP(b)/FAA(c) IJP SOURCE CODE: 0) JDAN/JW/GO VR/0051/65/019/003/0409/c+16 ACC NR. AP5022865 AUTHOR: Zhitomirskiy, I. S.; Chebanova, T. S.; Shakhnovich, M. 44,55 41155 ORG: none 21.41 55 TITIE: Effect of self-shadowing on the coefficient of reflection from the cleaved surface of a single crystal SOURCE: Optika i spektroskopiya, v. 19, no. 3, 1965, 409-416 TOPIC TAGS: single crystal, light reflection coefficient, geometric optics, lithium fluoride, ergodic theory ABSTRACT: The authors study the shadowing of incident light by a randomly stepped surface in the geometrical-optics approximation, which is valid in those cases for which the wavelength of the light is appreciably less than the dimensions of the step. Probability theory is used to find the factor by which shadowing decreases the intensity of the reflected light. The reflection is assumed to take place sufficiently far from the edges of the sample so that the process can be regardes as stationary. The size of the reflecting region is also assumed to be much larger than the average spacing between the steps. Ergodic properties are then used to determine the fraction of the rays reflected in a given direction, which is assumed to equal the probability that a ray will strike the horizontal part of the surface and will be reflected without striking the surface again. The theoretical calculations were compared with experimental data obtained with a single crystal of LiF, whose 535.312 UDC: 1/2

ACC NR: AP5022865 Cleavage surface had a well defined step structure. The widths and heights of the steps were measured with a microscope, and the coefficient of reflection was must sured with SP-68 apparatus at 105 mm wavelength. The results of the experiment sured with SP-68 apparatus at 105 mm wavelength. Orig. art. has: 3 figures, 35 agreed well with the theoretical calculations. Orig. art. has: 3 figures, 35 mulas, and 1 table.					
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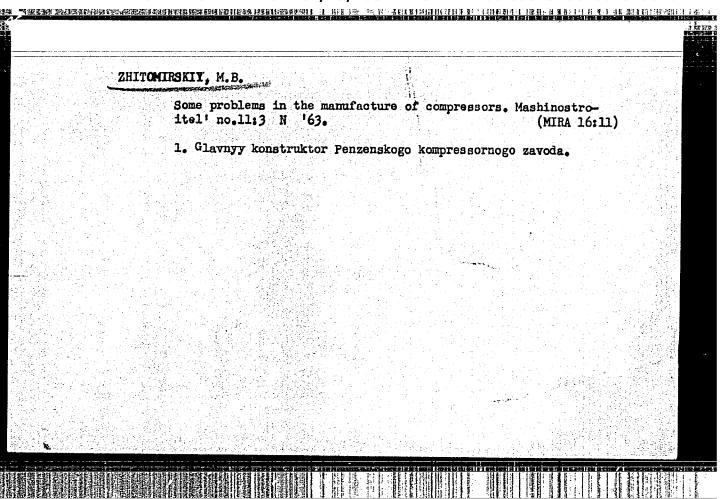


ZII	ITOMIRSKIY, M.B., inzh.	
	New equipment marufactured by the Penza Compressor Plant mashinostr. no. 6:5-6 N-D '62. (MIRA 17:	nt. Khim. 19)
	분리의 발표한 시민이 아름이 발표하는 것 같아. 그는 이에 를 받기 때문다. 즐겁니다.	
	등에는 말라는 말라고 있다면 가는 물건이 되었다. 그는 그 사람이 되었다. 등에 가장 하는 것이 되었다. 그는 말라고 있는 것이 되었다. 그는 말라고 있다. 중에는 물로 그는 말라고 있는 것이 되었다. 그는 것이 되었다. 그는 것이 없는 것이 되었다.	

KURBATSKIY, I.L., insh.; PETROV, I.P., insh.; USTINOV, A.I., insh.; CHERNYY, A.A., insh.; MURZIN, V.G., insh.; ZHITOMIRSKIY, M.B., insh.

Manufacture of large compressor parts from extra-strong cast iron.

Khim.mashinostr. no.5:36-37 S-0 '63. (MIRA 16:10)



3/184/62/000/006/001/009 D040/D112

AUTHOR:

Zhitomirskiy, M.B., Engineer

TITLE:

New production of the Penza Compressor Plant

PERIODICAL:

Khimicheskoye mashinostroyeniye, no. 6, 1962, 5-6

TEXT: A brief review is made of the types of compressors produced by the Penzenskiy kompressornyy zavod (Penza Compressor Plant), one of the major Soviet producers of heavy-duty medium— and high-capacity air and gas compressors. A table lists 23 types of compressors produced, their capacity, size, pressure developed, piston stroke, r.p.m., electric motor capacity, number of stages and weight. Blueprints have been completed for the 2Γ-900/4.5 (2G-900/4.5) and 3Γ-220/13 (3G-220/13) compressors, which weigh up to 200 t without the motor and have capacities of 54,000 and 13,000 m³/hr respectively. Serial production of automatic control panels for one of the compressor types was started in 1962. Preparations for production of a range of opposed-piston compressors initially developed by the Leningrad Branch of NIIKHIMMASh was started in 1961.

Card 1/2

	S/184/62/000/006/001/008 D040/D112
New production of the Penza Compresso	or Plant
- Other Horizontal Diston Compressore	or have the double capacity for the same
size) and require 30% less copper and	l mica for the motor. There is 1 table.
	적으로 하는 이 시대 등을 하는 것이다. 이 등에 들어 들어 하는 그것 같은 것이다. 생물들은 사람들은 이 사람들은 일이들이 이렇게 작용하는 것이다. 그렇게 하는
	는 등 수 있는데 그 것도 되었다. 얼마나 하는 것은 것은 것이 하고 있다. 주가 도 발생들이 되었다. 그 그는 그는 그를 받는데 있다.
	본 살 에 자연하는 보다가 말으로는 그 나는 사람들이라지 않는 생기되었 주는 117 후 하는 하는 사람들이 하는 사람들은 사람들이라고 하는 것이다.
물론 (프로그리아 스 등이 보고 등이 되었다. 하는 하다.) 1	물통 말리고를 내를 크루기 살린다를 만했다.
	돌려 전기 등에는 내용한 시간 보험 등 하는 것으로 가지 않는 것이 되었다. 1일 일 때문에는 사용하는 것이 하는 것이 있는 것이 하는 것이 없는 것이 없다.
Card 2/2	등에 하고 있는 해면을 하고 있다는 이번 보다 등 생각을 하게 된다. 19 1970년 - 일본 교육을 다 하는 것 같아 보는 기를 하는 것을 위한다.
<u> (2008년) 1985</u> - 조르와 시시간에 보안되고 되는 때문을 이용하게 했다.	

SOV/86-58-8-34/37

AUTHOR:

Zhitomirskiy, M.O., Engineer

TITLE:

New Method for Calculating Some Performance Characteristics of Aircraft Equipped with Turbo-jet Engines, for Altitudes Above 11,000 Meters (Novyy metod rascheta nekotorykh letnykh kharakteristik samoleta s TRD dlya

vysot N≥11000 m)

PERIODICAL:

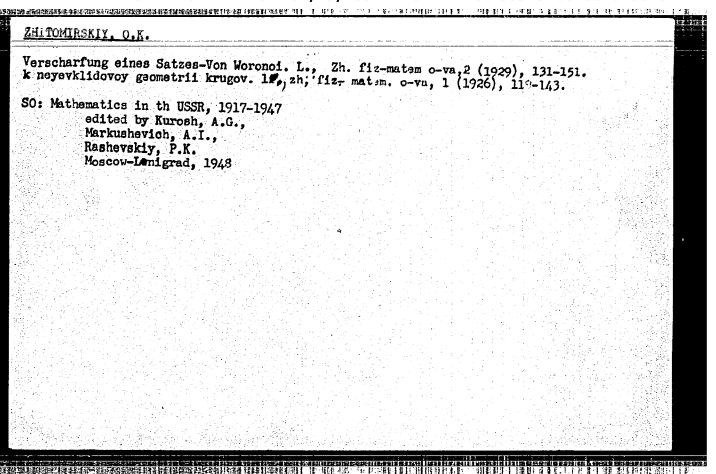
Vestnik vozdushnogo flota, 1958, Nr 8, pp 85-86 (USSR)

ABSTRACT:

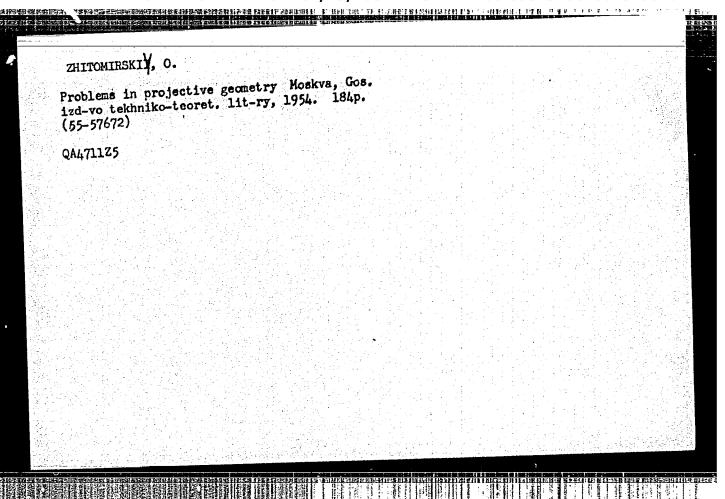
The author suggests a new method for a rapid calculation of some performance characteristics of turbo-jet aircraft at altitudes of 11,000 m or higher. Two

graphs.

Card 1/1



ZHITOMI.	rskiy, o,	К.								
	"On the	Non-Flex	dbility	of Ovals,	Dokl.	AN SSSI	R, 25,	No.5,	1939.	
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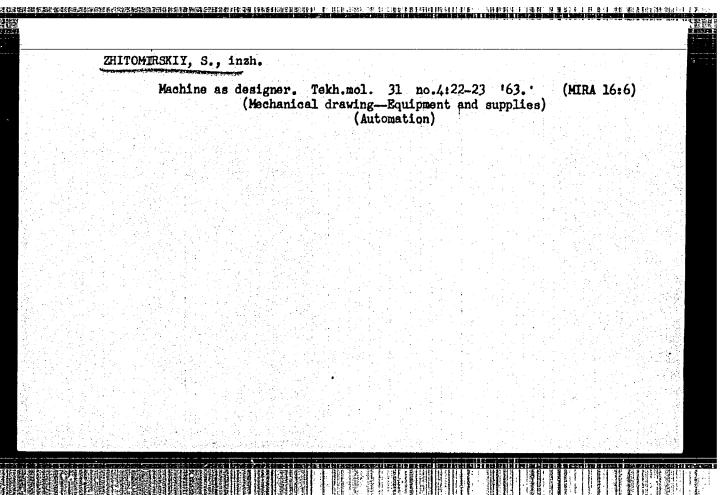


STAL'SKIY, Vladimir Vil'gel'movich; ZHITOMIRSKIY, Orest Romanovich; LIKHNITS-KIY, M.I., nauchnyy red.; DOLMATOV, P.S., vedushchiy red.; SAFRONOVA, I.M., tekhn. red. [Automation of main gas pipelines] Avtomatizatsiia magistral'nykh gazoprovodov. Leningrad, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 184 p. (MIRA 14:11) (Gas, Natural--Pipelines)

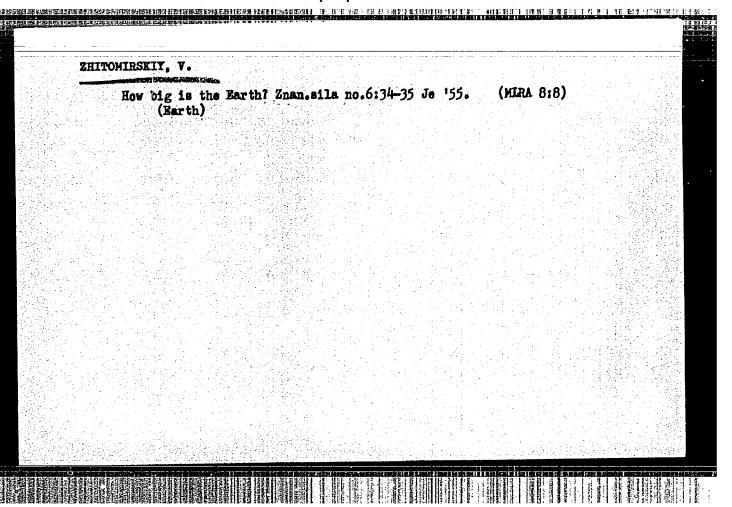
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APPROVED FOR RELEASE: 07/19/2001

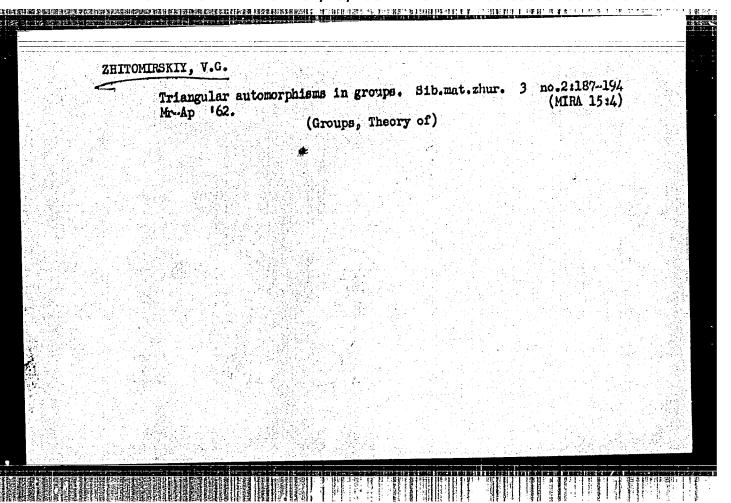
1.	ZHITOMIRSKIY. O.R.; MARTYNOV, A. N.	5
	USSR (600) Petroleum Industry	
	Comentary on the article by A. N. Glazkov and N. X. Movsesov "Problems in planning and construction of electric power supply to the petroleum industry. Energ.biul. no.7, 1952.	
9.]	Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.	
		1



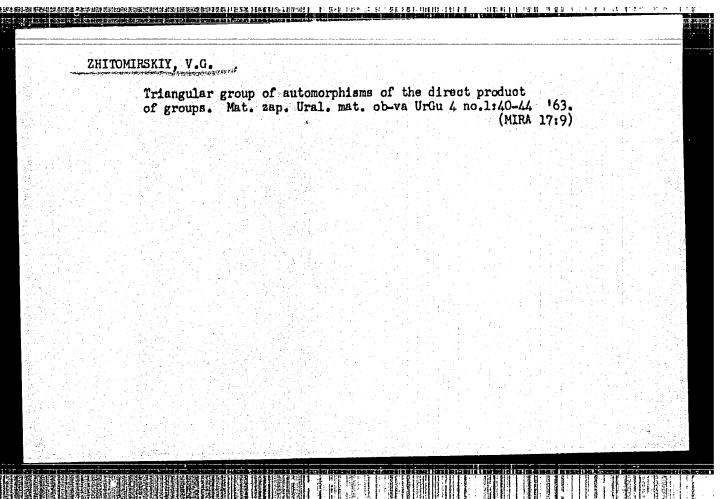
Statistical control of induction motors in factory elektroprom. 27 no.12:12-15 D 156.	tests. Vest. (MLRA 10:1)
l. Zavod imeni Vladimira Il'icha. (Electric motorsQuality control)	
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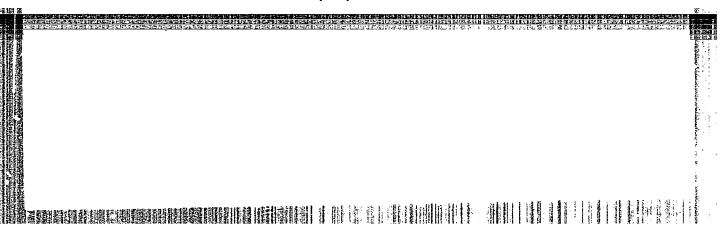
CIA-RDP86-00513R002064820016-2" APPROVED FOR RELEASE: 07/19/2001



CIA-RDP86-00513R002064820016-2" **APPROVED FOR RELEASE: 07/19/2001**



ZHITO	arskiy, V.G.					
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AID P - 4916

Subject

USSR/Electronics

Card 1/2

Pub. 90 - 10/10

Author

Zhitomirskiy, V. I.

Title

Reply to a letter to the editor

Periodical

Radiotekhnika, 6, 74-76, Je 1956

Abstract

The author replies to a letter to the editor (this journal, #6, 1956) written by Ye. A. Khmel'nitskiy concerning an article by the author "Determination of probabilities of selective fading caused by interfering probabilities of selective fading caused by interfering signals" (this journal, #10, 1955). The author disagrees as to the necessity of certain additional assumptions as to the necessity of certain additional assumptions suggested by Ye. A. Khmel'nitskiy because some of them suggested by Ye. A. Khmel'nitskiy because some of them are self-evident and others were taken care of by his are self-evident and others were taken care of by his are self-evident and disagrees as to the final conclusion. In the formula and disagrees as to the final conclusion. According to the author, the real gain obtained with extended antennas depends not only on the signal level

Radiotekhnika, 6, 74-76, Je 1956

AID P - 4916

Card 2/2

Pub. 90 - 10/10

but also on the distribution of probabilities of the average levels of unwanted signals from interfering stations. Two diagrams. In a final note the editors conclude that the comments of Ye. A. Khmel'nitskiy were basically correct with exceptions to which they point. Both letters serve as a sufficient explanation of the

Institution: None

Submitted

No date

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064820016-2"

ZHITOMIRSKIY, V. K., ed.

Kolebaniia valov aviatsionnykh dvigatelei; sbornik perevodov. Moskva, Oborongiz, 1941. 132 p., illus. (Trudy TSIAM.)

Includes bibliographies.

Title tr.: Vibration of shafts of aircraft engines; collected translations.

TL701. A1M72

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZHITOMIRSKIY, V. K. ed.

Kolebaniia valov aviatsionnykh dvigatelei; sbornik perevolov. Moskva, Oborongiz, 1941. 132 p. illus. (Moskva, Tsentral'nyi institut aviatsionnogo motorostroeniia, Trudy.)

Includes bibliographies.

Vibration of shafts of aircraft engines; collection of translations.

DLC: TL702.C7Z48

50: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

UR/ ACC NR: AM6024647 Monograph Zhitomirskiy, Valentin Konstantinovich Mechanical vibrations and methods of their damping (Mekhanicheskiye kolebaniya i praktika ikh ustraneniya) Moscow, Izd-vo "Mashinostroyeniye", 1966. 0174 p. illus., biblio. Errata slip inserted. 8,000 copies printed. TOPIC TAGS: machine vibration, machinebuilding, nonlinear oscillation PURPOSE AND COVERAGE: This book is intended for machinebuilding engineers and can also be useful to students of higher technical education institutes. In the book is briefly presented the theory of the vibration of mechanical systems, throwing light on some problems of vibration isolation, which determine the form of the natural oscillations of systems with many degrees of freedom; in addition, nonlinear oscillations, fluctuation, autovibration, and means recording vibrations are examined. Also discussed are means of eliminating vibrations which affect the normal operation of machines, and practical problems are presented. There are 17 references, 15 of which are Soviet. TABLE OF CONTENTS (Abridged) 621-752 UDC: Card 1/2

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Ch. VI. Nonlinear v	of system with two degrees of freedom system with many degrees of freedom vibrations. Autovibrations	63 83	4.1
Ch. VII. Recording Ch. VIII. Examples	vibrations Autovibrations	110	
Which do not	Or eliminating unda-	122	
breakdowne	reakdowns eliminating vibrations which cause	137	
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ZHITOMIRSKIY, V. K. ed.

Maiatnikovyi dempfer malogo vesa dlia kolenchatykh valov aviatsionnykh dvigatelei. Moskva Oborongiz, 1942. 4 p. (Moskva, Tsentral'nyi nauchno-issledovatel'skii institut aviatsionnogo motorostroeniia, Trudy. No.43)

Low weight pendulum damper for crankshafts of aircraft engines.

DLC: Unclass.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ZHITOMIRSKII, V. K.

Maiatnikovyi dempfer malogo vesa dlia kolenchatykh valov aviatsionnykh dvigatelei. Moskva, Oborongiz, 1942. 4 p. (TSIAM, Trudy, no.43)

Title tr.: Light pendulum dampers for crankshafts of aircraft engines.

TL701.A1M72 no. 43

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZHITOMIRSKIY, V. K.

Krutil'nye kolebaniia valov aviatsionnykh dvigatelei. (In: Serensen, S. V. Dinamika i prochnost'kolenchatykh valov. Moskva, 1948. p.49-81, tables, diagrs., bibliography)

Title tr.: Torsinal vibrations of shafts in aircraft engines.

TJ182.54

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

IORISH, Yuliy Iosifovich; ANTSYTHROV, M.S., kandidat fiziko-matematicheskikh nauk, retsenzent; ZHITOMIRSKIY, V.K., doktor tekhnicheskikh nauk, redaktor; MATVEYEVA, Te.M., tekhnicheskiy redaktor

DMITRITEY, S.A.; KALATUROY, B.A., kand, tekhn, nauk; ZHITOMIRSKIY, Y.K., doktor tekhn, nauk [translator].

"Prestressed reinforced concrete and its use in practice" [in German] by F. Leonhardt. Reviewed by S.A. Dmitriev, B.A. Kalaturov. (Prestressed concrete construction)

(Leonhardt, F.)

DIMENTEERG, F.M.; SHATALOV, K.T.; GUSAROV, A.A.; ZEITCMIASKIY, V.K., doktor tekhn. nzuk, retsenzent; DANILOV, L.N., inzh., red.

[Vibrations of machinery] Kolebaniia mushin. Moskva, Machinostroenie, 1964. 307 p. (MIRA 17:8)

DOLLEZHAL', Vladimir Antonovich, prof.; ZHITOMIRSKIY, V.X., doktor tekhn.
nauk, retsenzent; KORABLETA, R.M., inzit., Fed.; EL'KIND, V.D., tekhn.red.

[Rated load of gears] Raschetnaia nagruska subchatykh peredach.
Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1957. 78 p.

(Gearing)

(Gearing)

ZHITOMIRSKIY, V.K. [translator]; KOLTOWYY, B.I. [translator]; UZHIK, G.V., prof., red.; SIDONOV, V.Ya., red.; BELEVA, M.A., tekhm. red.

[High temperatures in aircraft structures; articles translated from the English] Problemy vysokikh temperatur v aviatsionnykh konstruktsiiakh; sbornik statel. Moskva, Izd-vo inostr. lit-ry, 1961. 595 p.

(MIRA 14:12)

(High temperatures) (Thermal stresses) (Airplanes)

ZHITCHIRGKIY, v. K.

Cand. Medical Sci., -c1948...

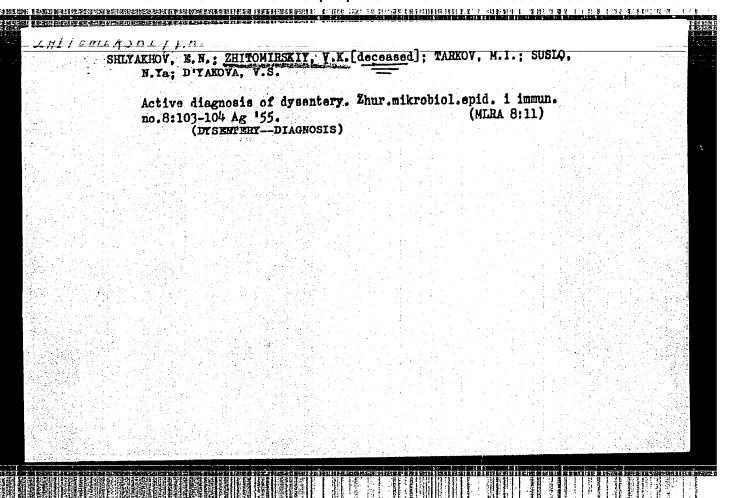
Mor., Moscow Oblast Inst. Epidemiology, Microbiology, & Infectious Diseases im.

I. I. Mechnikov, -c1949...

"Prevention of the Introduction and Propagation of Infectious Diseases in Childrens'
Institutions," Fel'dsher i Akusher., No. 4, 1948;

"Diagnosis of Recurrent Typhus during the Apyretic Period,"

Sov. Med., No. 8, 1949.



EH LI OM LE	THE PERSON NAMED IN	[deceased], P	医质碱性洗液			
	Hechanism 21:185-194	of Schwartzma 156	n's phenomen	on. Trudy S	stal.mod.inst (MIRA	11:8)
	l. Is kaf	edry mikrobio (INFLAMMATION	logii (zav.	- dots.V.K.	Zhitomirskiy	[deceased]).
			Parada Naviot			

ZHITUMIKONIY, V.A.

USSR/Microbiology - Medical and Veterinary Microbiology

F-4

Abs Jour

: Referat Zhurn - Biol., No 16, 25 Aug 1957, 68620

Author

: Shlyakhov, E.N., Zhitomirskiy, V.K., Tarkov, M.I.,

Suslova, N.Ya., Dyakova, V.C.

Title

The Active Exposure of Dysentery Bacteria Excretors in

some Ordinarily Uninvestigated Population Groups.

Orig Pub

: Sb. tr. Mold. n.-i. in-t Epidemiol., mikrobiol. i

gigieni, 1956, No 1, 91-98

Abstract

The relative frequency of dysentery bacteria-carriers was investigated in several ordinarily uninvestigated groups of the population, for instance, pregnant women, confined ones, patients in surgical and therapeutic departments, patients with diseases of the digestive organs, also different ordinary diseases, and finally patients with infectious hepatitis. The huge majority of excretors are persons of 18-42 (85%). The main mass of people investigated (63.5%) were

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USSR/Microbiology - Medical and Veterinary Microbiology

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Abs Jour : Referat Zhurn - Biol., No 16, 25 Aug 1957, 68620

confined women. Most bacteria excretors belong to this group. The frequency of detection of dysentery bacteria excretion in pregnant women is 3.7%, in women in confinement, 9.94%. The excretion of dysentery bacilli among pregnant and confined women investigated was observed 4-5 times oftener than among normal ones. In bacteriological investigation of surgical and therapeutic patients predominately with diseases of digestive organs, patients with infectious hepatitis also manifested a large number of excretors of dysentery bacilli. The frequency of detection of carriers was least in May and sharply increased in September. The majority of isolated types belongs to the type of Flexner bacteria (89.1%), 9.2% to Newcastle and 1.7% to Sonne. The authors consider that for the purpose of exposure of dysentery bacteria carriers, a triple inspection in infectious disease departments of hospitals should be made for dysentery

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USSR/Microbiology - Medical and Veterinary Microbiology F-4

Abs Jour : Referat Zhurn - Biol., No 16, 25 Aug 1957, 68620

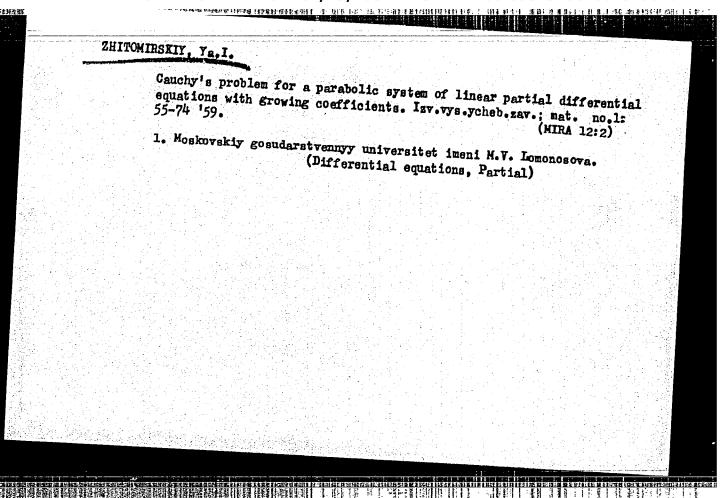
bacteria in all patients with diseases of the digestive tract and also in patients with infectious hepatitis.

Card 3/3 - 67 -

Che condition for the correct solvability of the Cauchy problem for systems of partial linear differential equations with variable coefficients. Isy. vys. ucheb. sav.; mat. no.4:79-88 '60. (MIRA 13:10) 1. Moskovskiy gosudarstvennyy universitet in. M.V. Lomonosova. (Differential equations, Partial)

ZHITOMIRSKIY, Ya.I., Cand Phys Math Sci — (diss) "Concerning the Cauchy problem for systems of equations of partial derivatives with variable coefficients." Mos, 1959. 7 pp (Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov)
150 copies (KL, 36-59, 111)

- 5 -



Chitomirskiy, ya.L

AUTHOR:

ZHITOMIRSKIY, Ya.I.

20-6-4/42

TITLE:

On Cauchy's Problem for Parabolic Equations of Second Order With Variable Coefficients (O zadache Koshi dlya paraboliches-kogo uravneniya vtorogo poryadka s peremennymi koeffitsientami)

PERIODICAL:

Doklady Akad. Nauk, SSSR, 1957, Vol. 116, Nr 6, pp. 913-916 (USSR)

ABSTRACT:

The author considers the equation

(1)
$$\frac{\partial u}{\partial t} + Lu = f(x,t)$$
,

where it is

$$L = -\sum_{i,j=1}^{n} \frac{\partial}{\partial x_i} a_{ij}(x) \frac{\partial}{\partial x_j} + \sum_{i=1}^{n} b_i(x) \frac{\partial}{\partial x_i} + c(x), \quad x = (x_1, \dots, x_n)$$
and the following conditions are satisfied: 1. $a_{ij}(x) = a_{ij}(x)$:

2.
$$c(x)$$
 -c, c 0; $3 \cdot \sum_{i,j=1}^{n} a_{ij}(x) \xi_{i} \xi_{j} \gg \sum_{i=1}^{n} \xi_{i}^{2}$ (d > 0).

According to a method due to Vishik [Ref.1] the author defines, by introducing certain Hilbert functional spaces, the notion of a generalized solution for the Cauchy and for the mixed problem

Card 1/2

On Cauchy's Problem for Parabolic Equations of Second Order 20-6-4/42

corresponding to (1). Under the assumption that

the existence and uniqueness of the generalized solutions is proved. There are 3 Slavic references.

ASSOCIATION: Moscow State University imeni M. V. Lomonosov (Moskovskiy gosudarstventy universitet im. M.V. Lomonosova)
By I.G. Petrovskiy, Academician, May 15, 1957
May 11, 1957 PRESENTED:

AVAILABLE: Library of Congress

Card 2/2

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ZHITOMIRSKIY, YA I	Convergence of Certain Numerical Series," Ya. I. Zhit- centrakiy "Uspekh Matemat Mauk" Vol VII, No h (50), pp 153-156 "Uspekh Matemat Mauk" Vol VII, No h (50), pp 153-156 considers the conditions governing the convergence of if(2) + 1/f(3) = with decreasing terms. Demon- strates theorem that the existence of a finite limit strates theorem that the existence of a finite limit af the expression / dx/f(x), where p and q represent manber of pos and neg terms in the series in segment exticient for the convergence of the series. Gives 3 simple examples. 3 simple examples.	

USSR/Nathematics - Cauchy's theorem Card 1/2 1 Pub. 22 - 2/44 Authors Zhitomirskiy, Ya. I. Cauchy's theorem (problem) for solution of systems of linear Title equations with partial derivatives and differential operators of Bessel's type Periodical Dok. AN SSSR 98/1, 9-12, Sep 1, 1954 Abstract A class of functions satisfying Cauchy's theorem (problem) is sought. The following are the conditions for the class of functions mentioned: 1) it should include a solution u(x,t) at any t > 0 of the system of linear equations representing the Cauchy theorem, $\frac{\partial u(x,t)}{\partial t} = p(B,t)u(x,t)$ Institution : Kiev State University im. T. G. Shevchenko Presented by : Academician A. N. Kolmogorov, May 31, 1954

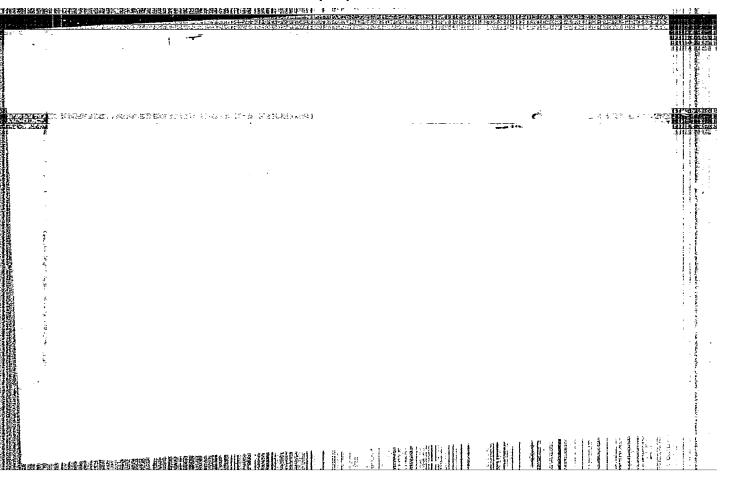
Periodical : Dok. AN SSSR 98/1, 9-12, Sep 1, 1954

Card 2/2 ! Pub. 22 - 2/44

Abstract : and 2) the solution should satisfy initial and boundary conditions,

$$u(x,0)=u_0(x); \begin{vmatrix} \frac{\partial u(x,t)}{\partial x} \\ \frac{\partial u(x,t)}{\partial x} \end{vmatrix} x = 0.$$

A method of generalized functions, introduced by Gelfand and Shilov, is used for finding the functions. Five references (1938-1954).



SOV/140-59-1-7/25 16(1) Zhitomirskiy, Ya.I. The Cauchy Problem for Parabolic Systems of Linear Partial AUTHOR: Equations With Increasing Coefficients (Zadacha Koshi dlya TITLE: parabolicheskikh sistem lineynykh uravneniy v chastnykh proizvodnykh s restushchimi koeffitsiyentami) PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 1, pp 55-74 (USSR) The author considers parabolic systems the coefficients of which for the not highest terms (with respect to the order of ABSTRACT: differentiation) in infinity have a potential order of increase depending on the order of the system and on the order of the derivative to which there belongs the coefficient. For such systems the author proves the existence of a fundamental matrix and this fundamental matrix and its derivatives are estimated. With the aid of the estimations the existence and uniqueness of the solution of the Cauchy problem in the classes of quickly

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064820016-2"

increasing functions for the considered systems can be proved. It is shown that for quicker increasing coefficients even in the $L_2(-\infty,\infty)$ the uniqueness of the solution of the Cauchy

The Cauchy Problem for Parabolic Systems of SOV/140-59-1-7/25
Linear Partial Equations With Increasing Coefficients

problem can be disturbed. In a short survey the papers of
I.G.Petrovskiy, S.Z.Bruk, O.A.Ladyzhenskaya, and S.D.Eydel'man
are mentioned.
There are 10 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

SUBMITTED: March 13, 1958

507/38-23-6-8/11 16(1) 16.3500 Zhitomirskiy, Ya.I. The Cauchy Problem for Certain Types of "G. Ye. Shilov" Parabolic AUTHOR: Systems of Linear Equations in Partial Derivatives with TITLE: Variable Coefficients Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1959, Vol 23, Nr 6, pp 925 - 932 (USSR) PERIODICAL: Let the system ABSTRACT: (1) $\frac{\partial u(x,t)}{\partial t} = P\left(\frac{1}{1}, \frac{\partial}{\partial x}\right) u(x,t)$ be given, where $u(x,t) = \left\{u_1(x,t), \dots, u_N(x,t)\right\}$, $x = (x_1, \dots, x_N)$ and $P\left(\frac{1}{1}, \frac{\partial}{\partial x}\right)$ is a matrix, the elements of which are polynom- $\frac{1}{1}\frac{\partial}{\partial x_1}$, ..., $\frac{1}{1}\frac{\partial}{\partial x_n}$ with constant coefficients. Let ials of $\lambda_1(s),...,\lambda_N(s)$ be the roots of det $||P(s)-\lambda E||=0$ Card 1/5